5.0 SUBGRADE MODELS

5.1 PR-CBR Model

All penetration and CBR laboratory data measured in this study are shown in Figure 5.1 along with predictions from PR – CBR correlations published in literature. The test results from this research appear to lie above the trends obtained from previous correlations. At this point, it is possible that the difference between the measured data and previous correlations can be attributed to the confining effect of the 150 mm (6 in) mold used in this study. Livneh et al (1993) based their correlation on field and lab data and Smith and Pratt based their correlation on field data alone.

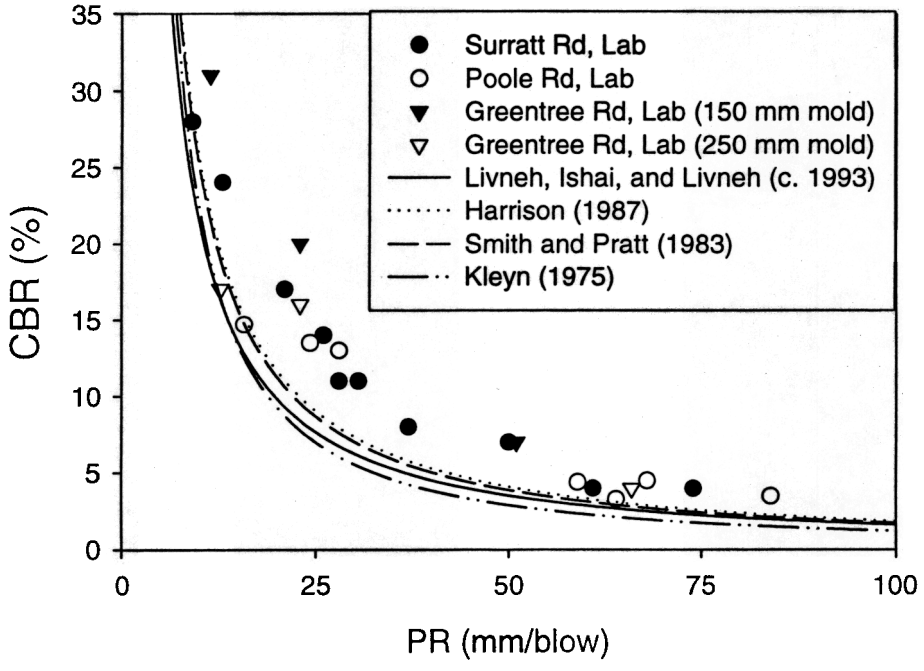

Figure 5.1 CBR - PR laboratory data shown with several correlations

5.2 Laboratory Correlation for Field Use

Figure 5.2 shows a "best-fit" correlation based upon corrected data from the 150 mm (6 in) laboratory specimens as well as uncorrected 250 mm results. To correct the data from the 150 mm (6 in) test specimens for confinement, the CBR values were multiplied by 0.63 (see results from the confinement effect study).